043030ABG - ARROW GEAR COMPANY

.

- SOURCE DATA -

SOURCE IDS AND LOCATION	AIRS: 17-043-0074 FINDS: ILD00507520 FEIN: 36-2343766 D&B: 00-507-5209 SIC 1: 3566 SIC 2: SIC 3:	15 IEPA USE ONLY		3: 2: E		
SOURCE ADDRESS	ARROW GEAR COMPANY 2301 CURTISS STREET DOWNERS GROVE, IL 60515 CONTACT: MICHAEL CERVINKA PHONE: 630-969-7640 EXT: 235 FAX: 630-969-0253					
ANNUAL EMISSION REPORT MAILING ADDRESS	ARROW GEAR COMPANY 2301 CURTISS STREE DOWNERS GROVE, IL CONTACT: MICHAEL C PHONE: 630-969-7 FAX: 630-969-0	ET 60515 ERVINKA 640 EX	T: 235			
	COMPANY I	NAMED ABOVE, WHETHER	SUBBMITTED ELECTRO	IFIED OR PROVIDED ON BEHALF OF THE DNICALLY OR IN WRITING, REPRESENTS ACCURATE TO THE BEST OF MY KNOWLEDGE.		

DATE

TELEPHONE NUMBER

AUTHORIZED SIGNATURE

TYPED OR PRINTED NAME AND TITLE

71039

DAPC - ANNUAL ISSIONS REPORT - 1998

043030ABG - ARROW GEAR COMPANY

- ANNUAL SOURCE EMISSIONS -

POLLUTANT CODE	ALLOWABLE EMISSIONS (TONS/YEAR)	EMISSIONS REPORTED FOR 1997 (TONS/YEAR)	IEPA 1998 ESTIMATED EMISSIONS (TONS/YEAR)	SOURCE REPORTED EMISSIONS FOR 1998 (TONS/YEAR)
CO	1.0918	0.2328	0.4196	0.21
хох	4.8920	1.1086	1.8832	1.00
PART	3.4944	0.1330	1.5563	0.08
Vov	4.9737	0.9306	1.6613	0.72
302				0.006
PM10				0.08

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043030ABG - ARROW GEAR COMPANY

- PERMIT LISTING -

PERMIT	TYPE OF			STATUS	
NUMBER	PERMIT	OPERATION NAME	STATUS	DATE	EXPIRES
	*				
73060221	LIFETIME	GEAR MANUFACTURING	GRANTED	04/23/97	

ς.

Appendix D-2: Emissions Calculation Notes

Calculation #1: Combustion Emissions

1998 Natural Gas Consumption for Facility = 20.1 mmcf

Actual (TPY) Combustion Emissions

PM-10 TPY = (20.1 mmcf)(7.6 lb/mmcf)*(1ton/2000 lbs.) = 0.08 TPY

PART TPY = (20.1 mmcf)(7.6 lb/mmcf)*(1 ton/ 2000 lbs) = 0.08 TPY

SO2 TPY = (20.1 mmcf)(0.6 lb/mmcf)*(1 ton/ 2000 lbs) = 0.006 TPY

NOX TPY = (20.1 mmcf)(100 lbs/mmcf)(1 ton/ 2000 lbs) = 1.00 TPY

CO TPY = (20.1 mmcf)(21 lbs/mmcf)(1 ton/ 2000 lbs) = 0.21 TPY

VOM TPY = (20.1 mmcf)(5.5 lb/mmcf)*(1 ton/ 2000 lbs) = 0.06 TPY

*AP-42.1.4 Emission Factors. NOX and CO Emission Factors as stipulated in permit.

This calculation includes combustion emissions from all natural gas fired equipment in the facility using the total gas throughput and these average emission factors.

Calculation #2: Solvent Emissions from Parts Washers

Solvent VOC Emissions (TPY)

VOM TPY = 2 units x 0.33 tons/year/unit = 0.66 TPY

Note: AP-42.4.6, Table 4.6-2

Calculation #3: Total VOM Emissions:

VOM TPY = VOM from Combustion + VOM from Solvent = 0.66 + 0.06 = 0.72 TPY

Other Particulate Emissions: It was assumed that the other particulate emissions from the facility were negligable for the purposes of this Emissions Inventory.

Appendix D-3: Facility Layout